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Bioscience marks 40th anniversary

By Arnie Heller

IBIS

Employees, retirees, and well-wishers gathered Wednesday to celebrate the Biology and Biotechnology Research Program's (BBRP) 40th anniversary. Comments from speakers focused on both the remarkable scientific achievements of the past four decades as well as the strong prospects for biological research playing a more prominent part in the Laboratory's future.

Laboratory Director Michael Anastasio said that these days it seems that "everyone wants to be a biologist." He noted that his daughter, a graduate student, spent two summers in a BBRP lab.

Anastasio predicted that BBRP would take a larger role in the Lab's mission as biological and physical scientists meld their research. The growing collaborations, he said, promise important progress in homeland security as well as human health.

Mort Mendelsohn, who served as BBRP associate director from 1972 to 1992, recalled



JACQUELINE MCBRIDE/NEWSLINE

From left: Former associate directors Mort Mendelsohn and Tony Carrano with current BBRP acting AD Bert Weinstein during presentations marking the directorate's anniversary.

how the directorate was created in 1963 to conduct both biological and environmental research, especially with regard to the health effects of ionizing radiation. He said the first associate director, John Gofman, recruited a
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Homeland security science and technology effort 'a tremendous step forward'

By Stephen Wampler

NEWSLINE STAFF WRITER

Plans by three national labs to work collaboratively with the new Department of Homeland Security drew praise last week from a top department official in a speech to Lab employees.

Charles McQueary, the DHS under secretary for Science and Technology, called the collaborative effort of Livermore, Los Alamos and Sandia "a tremendous step forward."

McQueary, who was briefed on LLNL counterterrorism projects last Thursday and on Sandia Livermore efforts on Friday, offered his views on the new department and the role of science and technology.

"The concept is to have the labs work together to form what we can refer to as our national lab, but there'll be no brick and mortar associated with that," McQueary said. "You continue here where you are."

In order to stem terrorism without adversely affecting commerce and border passage, revolutionary rather than evolutionary changes will be required, McQueary told employees.

"It's a hugely complex problem. And I can tell you for sure, the ability to be able to analyze what needs to be done cannot be done solely in Wash-

See HOMELAND, page 8

Health Services Department pilots new non-emergency care scheduling system

In order to enhance services to Laboratory employees, the Health Services Department is piloting a system of improved scheduling for non-emergency care.

The program, called "On-TIME" Service (Timely Intervention & Medical Excellence), begins June 18. This new scheduling service will balance the convenience and flexibility of drop-in visits with the efficiency of appointments for the medical clinic. The objective is to reduce wait times and to meet employee needs for clinical care better.

Customer satisfaction surveys in the past several months have reinforced a need for HSD to reduce waiting time for employees who seek services without an appointment.

Data analysis shows that Health Services receives 60 percent more drop-in patients than those with an appointment. This imbalance often causes undue waits for both drop-ins and those with appointments.

Carol Turner, clinical operations manager,

See HEALTH SERVICES, page 8

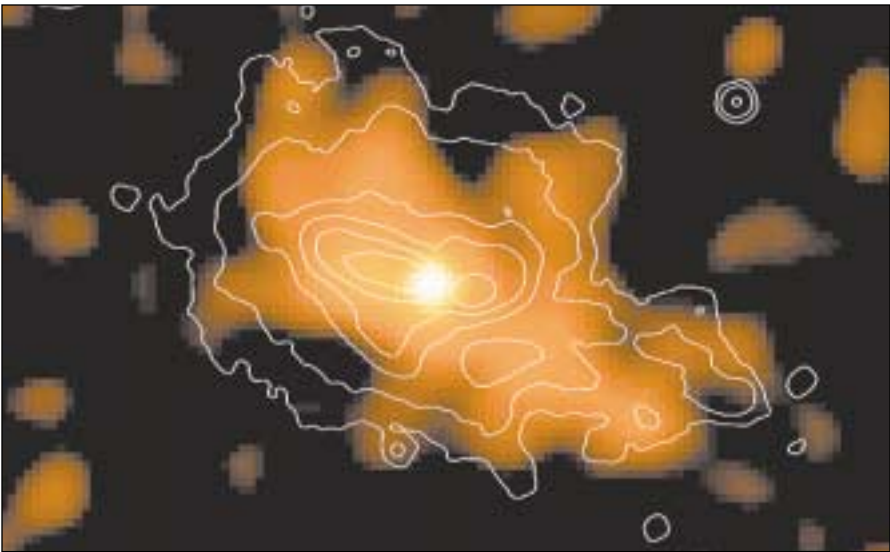
Forces that shape galaxies revealed

By Anne M. Stark

NEWSLINE STAFF WRITER

Using images from the Keck Observatory and NASA's Chandra X-ray Observatory, Laboratory astrophysicists, in conjunction with scientists from Columbia and Cambridge universities, have discovered how the release of energy from massive black holes is shaping two distant galaxies.

For years, Livermore scientists have detected black holes radiating gas through jets and celestial winds in galaxies that are forming in the early universe. (This is two billion years after the beginning of our universe, which is now about 14 billion years old). These jets are believed to have swept up clouds of dust and gas and triggered the formation of billions of new stars



The X-ray emission observed with the Chandra X-ray Observatory from the massive forming galaxy and its super massive, active black hole. The contours show the outline of the nebulae as imaged with the Keck telescope.

over the course of millions of years.

Now, with images from Chandra, vast clouds of X-rays have been observed coming from black
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Memorial Day ceremony

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Rep. Honda to speak

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Goose family steps out

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Saturday
24

There will be a **scheduled power outage** from 7 a.m. Saturday to 7 p.m. Sunday in the following locations: Bldgs. 321, 322, 322A, 326, 327 and 329; Trailers 3203, 3204, 3226. Contact: Mark Cardoza, 3-0490.

Monday
26

Memorial Day. The Laboratory is closed today.

Tuesday
27

The **LLESA Apple Computer Networking Group** will meet at 7 p.m. in the LLNL Discovery Center Press Room. Everyone with an interest in Apple brand and compatible computers is welcome to attend. Contact: Jim Branum, 2-6766.

Wednesday
28

The **LLESA Healthy Lifestyles: Weight Watchers at Work** networking group meets Wednesdays, 11:30 a.m. to 12:30 p.m., in Bldg. 571, room 2301. Contact: Marianne Ammendolia, 2-0901 or ammendolia1@llnl.gov

Friday
30

The next session of the **Benefits Office's brown-bag series** on how to enhance your financial security by participating in the Tax-Deferred 403(b) will be held from 12:15 p.m. - 1:15 p.m. in Bldg. 571, conference room 2301; additional sessions will be held on the last working day of each month through October. Attendance is open and no pre-registration is required. Bring your lunch and your questions. For additional information about benefit services or events, please see the Website at www.llnl.gov/jobs/benefits.



A representative from **Fidelity Investments** will be on-site to meet with employees on June 3-4 and June 10-11. Fidelity Investments are available to UC's 403(b) participants in addition to the UC-managed investment funds. To make an appointment, call Fidelity at 1-800-642-7131. When calling, be sure to specify that you are an LLNL employee.

Employees interested in learning more about the **CalPERS Long-Term Care Program** may attend a special presentation scheduled for 10:30 a.m. - noon in the Bldg. 543 auditorium. Generally long-term care is not covered by health insurance, disability insurance or Medicare. This program is available to all California public employees and retirees, including UC employees and their family members. The application period is April 1 - June 30. For more information, visit the Benefits Office website at www.llnl.gov/jobs/benefits.

Ceremony honors Memorial Day



FRANK NUNEZ/NEWSLINE

In honor of Memorial Day, Chelle Clements, left, and Marty Davis, of the Laboratory Armed Forces Veterans Association, planted a rose bush in the Rose Garden at the east end of the parking lot by the Discovery Center off of Greenville Road. Keith Graham presided over the group's Table of Remembrance and the planting of a memorial rose.

Talk examines women's evolving role in military

A belated Memorial Day presentation by Capt. Lorrie Sammons of the U.S. Navy will be held at 11:30 a.m. Thursday, June 5, in the Bldg. 543 auditorium.

Sammons will discuss "This Is Not Your Mother's Military: 30 Years of Change in Women's Roles in the Armed Forces."

Currently a Naval reservist with a medical unit in Alameda, Sammons will discuss the evolution of women's roles in the military since she joined the Navy in 1971.

Drawing her experiences in the military, rang-



Capt. Lorrie Sammons

ing from erecting a Fleet Hospital in the desert, to living aboard a nuclear aircraft carrier, to serving as an advisor to the Navy Surgeon General on women's health, Sammons will discuss the dramatic changes for women in uniform.

Many members of the LLL Armed Force Veterans Association have worked with Sammons at the East Bay Stand Downs at Camp Parks and know her humor and common sense.

The talk is sponsored by the Diversity and Worklife Programs Office.

IN MEMORIAM

Edward Beringer

Lab retiree Edward Beringer died of a heart attack on March 26. He was 66.

Beringer was born in Chicago and grew up in Oakland. He was an automotive fleet supervisor at the Lab at the time of his retirement in 2001. Prior to joining the Lab, he worked part-time as a switchman with Southern Pacific Railroad for nine years, and had a 20-year career as an auto mechanic.

He was a prolific collector of model train engines, Hot Wheels, and slot and racecars. His collection numbered more than 8,000. He was a member of the National Model Railroad Association.

Beringer is survived by his wife, Linda Beringer of Hayward; daughter Pamela Beringer of Pleasanton; sons, Mark Beringer of Brentwood and Jeffrey Beringer of Hayward; two stepchildren; 10 grandchildren and one great-granddaughter.

Contributions may be made to the Ed Beringer memorial Fund at Bank of Walnut Creek, 2111 South J St., Livermore, 94550.

Newsline

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AROUND THE LAB



Honda talk celebrates Asian Pacific heritage

Rep. Mike Honda, D San Jose, will close out Asian Pacific American Heritage Month events with a presentation entitled "From Internment Camp to Congress," at noon Thursday, May 29, in the Bldg. 543 auditorium.

A native Californian, Honda spent his childhood in a Colorado internment camp during World War II. Before he was elected to the U.S. House of Representatives in 2000, he served as a California assemblyman, a Santa Clara County supervisor and in a variety of municipal posts in San Jose.

Currently, Honda, whose congressional district includes Silicon Valley, serves on the House Committees on Science and Transportation and Infrastructure. His priorities include protecting Social Security, Medicare, public education, and transportation issues affecting the region.

Honda also serves as vice chair of the Congressional Asian Pacific American Caucus. Married with two grown children, Honda holds undergraduate degrees in biological science and Spanish, and a master's degree in education from San Jose State University.

The final event at Sandia will be an Asian Pacific American Heritage Month festival on Wednesday, May 28, from 11:30 a.m. to 1 p.m. in the Bldg. 911 parking lot.



Rep. Mike Honda

Illness resource center returns to offer assistance to employees and retirees

The departments of Labor and Energy will once again sponsor a traveling resource center to help current, retired, or former LLNL workers or their survivors file applications or get more information about the Energy Employees Occupational Illness Compensation Program Act.

The resource center will convene 8:30 a.m.-6 p.m. Monday, June 2-Thursday, June 5, at the Sheraton Four Points Hotel, 5115 Hopyard Road, Pleasanton. Phone 460-8800.

You may drop in or make an appointment by calling toll free 1-866-697-0841 between 8:30 a.m. and 5 p.m.

You may also get more information or file a claim through this number as well. If you have already attended a traveling resource center or filed a claim with the Department of Labor or Energy, you do not need to attend or call this Resource Center.

LLNL encourages you to visit the traveling resource center in Pleasanton if you have any questions about the Energy Employees Occupational Illness Compensation Act or wish to file an application.

Abraham appoints deputy undersecretary for counterterrorism

Energy Secretary Spencer Abraham has named Kenneth Rapuano to be deputy undersecretary of energy for counterterrorism. He will report to Linton Brooks, administrator of the National Nuclear Security Administration and Department of Energy undersecretary for nuclear security.

In the new position, Rapuano will coordinate counterterrorism policy within NNSA as well as with the rest of DOE. He also will serve as the department's senior point of contact with the Department of Homeland Security.

Much of the focus of the department's counterterrorism efforts centers on the nuclear weapons complex, but this responsibility cuts across many organizations in DOE, including the

offices of intelligence, counterintelligence and security. Rapuano's job will be to tie all together in an overall approach to terrorist threats.

Brooks said, "Ken has an excellent knowledge of national security issues and the experience to guide him well in this important position. The safety and security of our nuclear weapons, as well as the reliability of our emergency operations, is paramount in this world of new threats. We are fortunate he is taking on this new role."

Rapuano has more than 18 years of national security experience. He was previously the senior policy advisor for national security to Abraham, handling a wide range of programs and issues related to nonproliferation, intelligence, counterintelligence, homeland defense and special access pro-

grams.

Prior to joining DOE, Rapuano served as the director of the international affairs and nonproliferation department at Southern Research Institute, supporting the Joint Chiefs of Staff and the Office of the Secretary of Defense in the development of national security policies related to weapons of mass destruction.

Rapuano also has served as special assistant to the assistant secretary of defense for international security policy, as a foreign affairs specialist in the Office of the Secretary of Defense, and as counterproliferation program manager for DynCorp. He served on active duty as an infantry officer in the Marine Corps, and currently serves as an intelligence officer in the Marine Corps Reserve.

Packed program planned for Lab's summer students

By Linda Lucchetti

NEWSLINE STAFF WRITER

Summer means many things — warm weather, long days and the advent of summer students who arrive at the Lab as early as May, and remain through August. This summer's student intern and faculty population is expected to mirror last year's in size, with a total of approximately 600 renewals and new employees.

Again this year, the Lab's Institutional Educational Committee is chaired by Barry Goldman, internship manager for the Science & Technology Education Program. He has compiled a full slate of both educational and social activities geared for the visiting students. Registration for the activities and the full, latest schedule can be accessed at <http://internships.llnl.gov/sbb>.

"Having chaired the IEC for a number of years, I feel the committee has again pulled together an outstanding program for our students," said Goldman. "While all events are optional, I believe there is something for everyone, including Lab employees who are always welcome to attend the seminars."

Goldman believes that the purpose in providing the activities is so that students can understand the diversity of LLNL research, the Lab's mission in the Stockpile Stewardship Program, and the many factors in making their decisions about pursuing graduate school.

From seminars by scientists to brown-bag lunch discussions with Lab associate directors, the schedule promises to offer something to suit each student's interests. Heading the list of activities and kicking off the season is a Q&A session with Director Emeritus Edward Teller, scheduled for Wednesday, May 28 and again on July 24.

A variety of seminars are planned on such topics as: the Radiation Detection Center (June 4), Forensics and Nano-analysis (June 18), and the National Ignition Facility (July 30). In addition, returning this year are classes to assist students with their presentation and poster-development skills in preparation for the Labwide Student Poster Symposium on Aug. 6.

Also returning this year are a series of panel discussions titled "Graduate Fellowships and Scholarships" on June 25, the "Young Researcher: New Careers/Challenges," on July 18, and "Graduate Research at UC Campuses and MIT" on July 18.

Another popular event is the talk on July 17 at Sandia on "How to Get into Graduate School."

Two field trips have been added: UC Santa Cruz



on July 25, and UC Davis on Aug. 1. These field trips allow prospective students the opportunity to visit many graduate programs, as well as to interact with the graduate faculty and students. Goldman states that when and where there are tours, registration is limited. Students will have the first opportunity to participate. (Locations for all events will be posted at <http://internships.llnl.gov/sbb>.)

It's not just all work. New this year are several fun events, such as a "T-Shirt Design Contest" with designs due on July 11, and the "Intern Talent Show" on Aug. 8.

"If you are a summer student at LLNL, I encourage you to take advantage of these activities, as well as networking during the time you are here," added Goldman, who will be seeking students who intend to return next summer and would be willing to participate as IEC student advisors.

Students are encouraged to network with each other via the electronic Student Bulletin board (SBB) located at <http://internships.llnl.gov/sbb>. Students with questions or comments, or input and ideas for next summer may contact Goldman at 2-5177 or goldman1@llnl.gov.



NEWS YOU CAN USE

**Look for the
Summer 2003
Family Safety & Health magazine
in your mailbox soon.**



Summertime means sunscreen, beaches convertibles and sunshine . . . and sometimes injuries. Did you know that the summer season is when people incur the most injuries? This issue of Family Safety & Health addresses many vital summer topics, including watching kids around water, wearing a bike helmet, knowing the signs of heat illness, and celebrating July 4th safely.

Fair highlights safety information

Preventing identity theft, auto and bicycle safety, summer season precautions, and health screenings will be features of the 2003 Safety Fair on Thursday, June 5, from 11:30 a.m. to 1 p.m. in the area between east and west sides of Bldg. 551.

The Laboratory Services Directorate (LSD) sponsors the Fair and invites all Lab employees to participate. According to Associate Director Steve Hunt, the event is part of LSD's ongoing emphasis on safety and its theme for the year, "Live Safety Daily."

"We stress safety not only in Lab work areas but also during off hours," said Hunt. "That's what's behind our theme, and that's what will be reflected in the many Fair exhibits we have planned."

Hunt said that he also would be using the event as an opportunity to acknowledge the safety accomplishments of numerous people in his directorate. Awards will be made during a luncheon in an area near the exhibits. Though all Lab people are invited to the exhibits, the lunch is for LSD employees only.

About 25 planned exhibits include demonstrations by the California Highway

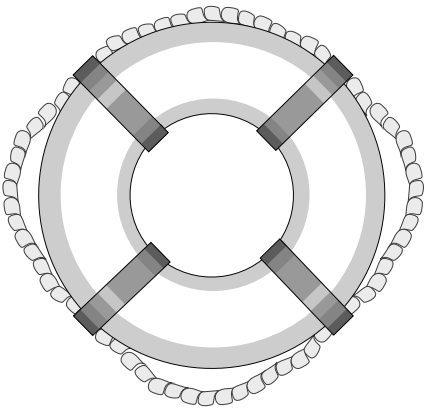
Patrol, Livermore Police Department, Coast Guard, and the Society for the Prevention of Cruelty to Animals (SPCA). The latter will discuss being safe around strange dogs.

Ergonomics will be a main focus at the Fair. One exhibit area will cover stretching exercises and back care, while the Lab's Ergonomics Program offers demonstrations on proper equipment to use at work or at home. A pamphlet discussing proper use of laptops and hand tools, and ergonomics for children will be available.

Among the many other areas to be covered are electrical, fire, and water

safety. Specialists from Plant Engineering will demonstrate safe practices in home workshops and people from the Travel Group will provide information on safe domestic and international travel. Other exhibits will feature information and demonstrations on health topics, as well as offer health screenings. Bicycle safety checks will be conducted.

Lab specialists from the Hazards Control, Health Services, Safeguards & Security, and Environmental Protection departments, and other outside safety resources, will tend the exhibits.



Technical Meeting Calendar

Friday
23

PHYSICS & ADVANCED TECHNOLOGIES

"Impact Delivery of Pre-Biotic Organic Matter to Planetary Surfaces," Elisabetta Pierazzo,

Plantary Science Institute. Noon, Bldg. 319, room 205. Refreshments will be served. Contact: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

PHYSICS & ADVANCED TECHNOLOGIES

"Charmonium Production as a Probe of Nuclear Matter," by Robert Newby, University of Tennessee. 10:30 a.m., Bldg. 211, room 227 (badge required). Contacts: Ron Soltz, 3-2647, or Pat Smith, 2-0920.

CHEMISTRY & MATERIALS SCIENCE

"Nanoscale Bioconjugates as Passive and Active Detection, Diagnosis and Treatment Systems for Cancer," by Karen L Wooley, Washington University in St. Louis. 9 a.m., Bldg. 235, Gold Room. Contacts: Dave Eaglesham, 2-0486, or Julie Sedillo, 3-3506.

Tuesday
27

PHYSICS & ADVANCED TECHNOLOGIES

"An Environmental Monitor for Aerosolized Pathogens," by Benjamin J. Hindson, 1:30

p.m., Bldg. 2128, room 1000 (uncleared area). Contact: Ron Soltz, 3-2647.

RADIATION DETECTION CENTER

There will be a presentation by Dave Nygren, Lawrence Berkeley National Labo-

ratory. 11 a.m., Bldg. 155, room 1100 (uncleared area). Contact: Ron Wurtz, 3-8504, or Christie Shannon, 3-6683.

PHYSICS & ADVANCED TECHNOLOGIES

"Creating Warm Dense States of Matter with Laser-Produced Proton Beams," by Pravesh Patel. 2 p.m., Bldg. 2128, room 1000 (uncleared area). Contact: Alan J. Wootton, 2-6533.

Wednesday
28

UC DAVIS, DEPARTMENT OF APPLIED SCIENCE

"Quantum Optics Enabling Information Science," by H. Jeff Kimble, William L. Valentine, California Insti-

tute of Technology. 3 p.m., Bldg. 661 (Hertz Hall), room 7 (open area). Contact: Estelle Miller, 2-9787.

Thursday
29

CHEMISTRY & MATERIALS SCIENCE

"Cellular Aluminum: Infiltration Processing and Mechanical Behavior," by Chris San Marchi, Sandia Nation-

al Laboratory. Noon, Bldg. 151, Stevenson Room, room 1209. Contacts: Andrea Hodge, 4-3715, or Linda Jones, 3-8839.

Friday
30

PHYSICS & ADVANCED TECHNOLOGIES

"Charting Cluster Evolution Since z ~ 1," by Lori M. Lubin, UC Davis. Noon, Bldg. 319, room 205

(uncleared area). Refreshments will be served. Contacts: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

June
4

PHYSICS & ADVANCED TECHNOLOGIES

"Feeding and Decay of Superdeformed Excitations of Heavy Nuclei," by Micah Johnson, Rut-

gers University, Department of Physics. 1:30 p.m., Bldg. 211, room 227 (badge required). Contacts: Lee Bernstein, 2-0377, or Pat Smith, 2-0920.

June
6

PHYSICS & ADVANCED TECHNOLOGIES

"The Origin of the Interstellar Medium in Early-type Galaxies," by Alex Athey, University of

Michigan. Noon, Bldg. 319, room 205. Contacts: Michael Gregg, 3-8946, or Josie Morgado, 3-4188.

INSTITUTE FOR TERASCALE SIMULATION TECHNOLOGY LECTURE SERIES

"Modeling Climate and Future Climate Change," by Warren Washington, National Center for Atmospheric Research. 10:30 a.m., Bldg. 543 auditorium (uncleared area). Contact: Linda Bodtke 3-0421.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the news-group llnl.meeting, contact the registrar at registrar@llnl.gov.

NEWS OF NOTE



JACQUELINE MCBRIDE/NEWSLINE



DON NELSON/EPD

Mother goose and her goslings enjoy a water puddle on the Bldg. 543 mezzanine. The goose family is now commuting between the Drainage Retention Basin and Bldg. 543 so the sign at left has been posted.

Taking a gander at the geese

A family of Canada geese that was relocated from its perch on Bldg. 543 to the Drainage Retention Basin last week is now waddling back and forth between the two locations.

The geese, which include four young goslings who cannot fly, have been spotted in a couple of locations. Employees are asked not to feed them or disturb them. Geese fed by people for several weeks are likely to become dependent on people and a nuisance.

The wild goose chase began last month when a pair of Canada geese (*Bran-ta Canadensis*) decided that a balcony on Bldg. 543 was the perfect spot to raise a family. Shortly after building a nest and laying eggs, they were joined by four goslings. Soon after hatching, they followed their mother onto the balcony and became trapped.

Because there is no natural food and water available on the balcony, Lab wildlife biologists determined the geese had to be moved. Young geese are able to walk as soon as they hatch, but their parents do not bring food to them. While young geese learn what and where to eat by copying their parents, it would have been a month before the goslings would have been able to get off the balcony.

Working with Alameda County animal control officers, the female goose and her goslings were captured last Thursday and relocated to the Drainage Retention Basin. The male goose, who eluded capture, soon tracked down his family at the lake.

The goose family has since been spotted throughout the southeast quadrant. Additional pictures of the geese are available at: <http://eed-r.llnl.gov/geese.php>

Grassroots campaign aims to increase cancer awareness

No matter what special interest an employee or group of employees has, Mark Costella believes they are all impacted by one thing: cancer.

With cancer affecting one out of every three lives, “It’s virtually impossible not to escape the disease,” he said. “Either you or someone you know will be affected by cancer. Unfortunately, cancer unites us all.”

So Costella and a grassroots team of employees have launched the Cancer Awareness Campaign, which returns in June for its third year. Originally organized in recognition of June as National Cancer Survivors month, the campaign has grown in scope and interest at the Laboratory.

Following the campaign’s traditional six-week run, Costella says organizers will turn their attention to year-round events, often working in tandem with other health campaigns.

“This thing is greased and ready to go” well beyond its original intent, says Costella, the ES&H operations/facility manager for the Energy & Environment Directorate.

Costella spearheaded the campaign as a way to call attention to resources available at the Lab for employees who want to prevent or seek more information about various types of cancer. As in previous campaigns, this year’s events will focus on new technologies, treatments available, prevention and awareness. A number of talks will be presented by cancer survivors, some of them Lab employees eager to share their experiences.

“We are really excited in co-sponsoring this year’s campaign jointly with Sandia-Livermore,” said Costella.

“This campaign is all about awareness. If we can provide one wake up call for someone out there, then everyone at the Lab wins,” said Costella.

Costella credits the volunteers who give up their lunch hours or after-hours time to organize the event, along with various directorates who donate money and resources. Directorates participating in this year’s event include Chemistry & Materials Science, Engineering, Energy and Environment, Safety, Security and Environmental Protection, Computation, the National Ignition Facility Program, and Nonproliferation Arms Control and International Security. Additionally, many of the employee networking groups have volunteered their time to support the campaign.

The Cancer Awareness Campaign kicks off Wednesday, June 4, with the annual Cancer Aware-

ness Health Fair and Quilt Show, from 11:30 a.m. to 1:30 p.m. at the Lab pool/lawn area. The fair features a number of games and informational booths to make people more aware of how to prevent and seek treatments for breast cancer, prostate cancer, colon-rectal cancer, testicular cancer, skin cancer and more.

Information will be provided by the Health Services departments of the Lab and Sandia, the American Cancer Society, Kaiser Permanente, Hope Hospice, and the Walnut Creek Wellness Center. The event is sponsored by the Energy & Environment, Chemistry & Materials Science and the NIF directorates, along with the American Indian Association and the Piecemakers, the LLESA quilting club.

More than 50 quilts will be on display including the Laboratory’s own Cancer Quilt, a tribute to friends and family who lost their lives to cancer or survived. Representatives from Piecemakers will be available to answer question about the quilt and provide information on how to add a square to the LLNL Cancer Quit. As part of its fund-raising efforts, the American Indian Activity Group will be selling Indian “Navajo” tacos for \$6, which includes a soda/water, or fried bread for \$2 a piece. Drinks will be sold separately.

On June 11, the Engineering Directorate will sponsor a presentation by Dr. John Adler, a neurosurgeon at Stanford University, on the “Cyberknife,” an advanced image guidance technology approved by the FDA to assist with tracking and treating tumors at any location in the body. The talk, at noon in the Bldg. 543 auditorium, is sponsored by Lab Women’s Association and the

Engineering Directorate.

On June 18, the campaign moves to Sandia-Livermore for a talk by Dr. Kathy Casey, who will present an overview of gynecological oncology, including current trends in treatment and prevention of gynecologic cancers. Casey’s presentation takes place at noon in Sandia’s CFR auditorium; all Lab employees are welcome.

“Who’s on First,” is a discussion by Disabilities Services Program Manager Cathy McClain, who will share her recent experiences fighting breast cancer. The talk is sponsored by the LGBTA and the SSEP Directorate, and takes place at noon June 24, in the Bldg. 543 auditorium.

On July 1, author and motivational speaker Terry Healy will discuss “At Face Value,” about the physical, mental, emotional and spiritual challenges he faced after being diagnosed with a disfiguring cancer. More information may be accessed at www.at-face-value.com/. The talk, at 1 p.m. in the Bldg. 543 auditorium, is sponsored by Amigos Unidos and Computations Directorate.

During his presentation at noon July 10, in the Bldg 543 auditorium, guest speaker Ted Holman, a doctor at UC Santa Cruz, will provide information about prostate cancer. The Lab Veterans Association sponsors this talk.

The culmination event to this year’s campaign will be the Memorial Walk around the site on July 16 from noon–1 p.m. (staging location to be announced). The walk honors those who have died of cancer, as well as those who have survived.

Newsline will carry additional details on these events as they become available.

Laboratory’s tour program needs new guides

Do you know someone interested in part-time or occasional work? Do they enjoy public speaking and meeting new people? If so, they might be an ideal tour guide candidate.

Public Affairs has revamped the tour program and is hosting tours of the Lab to the public, school children and community organizations. The two-hour tour features stops at NARAC, BBRP, CAMS, ASCI, NIF and the newly remodeled Discovery Center.

Tour guides are hired through Johnson Controls and paid on a per-hour basis.

“This is a great part-time opportunity for college students, stay-at-home moms or dads, retirees and others who might want occasional work at an exciting place,” said Christine Mixan, tour coordinator.

Tour guides will be trained extensively as part of the hiring process.

To apply for this position, contact Gina Cadena at 960-0369, extension 367, or email your resume to cadena2@llnl.gov. You also can drop off your resume at the Johnson Controls office in Trailer 4180.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1993 - Dodge Grand Caravan SE, good condition, A/C, All Pwr. \$2900 or B/O. 925-606-8315

1987 - Saab 900 132K (commuting) solid car, needs minor work (a/c, radio), new tires. \$900 o.b.o. Alameda stubarr@aol.com 510-521-4266

1988 - Red Saab turbo convertible, tan leather, auto, several upgrades, air not working, clean, runs good, asking \$3200, offers considered 925-447-5633

1993 - GMC Jimmy, 4.3 liter vortec v/6, a/c,power everything,leather, CD,147k.,overall good condition,\$3500 obo. 925-381-7395

1985 - Volvo DL. Good Condition. 175,000 miles. Standard Transmission. \$1,400 925-449-4093

Sandrail/Dunebuggy project. Have many parts/new paint.Great father/son project!Looks awesome.No trailer/green stick. Located in Vallejo. \$1000 obo 707-315-2118

1997 - Cadillac Seville STS - Very sexy car! Very Clean. New tires, recent registration and smog, 6 disk CD, moon roof, etc. 81K miles. \$14k OBO. 209-832-3435

1998 - Honda Odyssey LX, 56k miles, new tires, A/C front&rear, pwr windows/locks, dual airbags, AM/FM cass, \$10,800. 925-449-8162

1972 - 1972 classic ford bronco (red) 4x4, 3 speed, 302 engine, Tow Package, softtop, CD Player, very clean, runs good, \$6500.00 925-648-3582 925-648-3582

2001 - Toyota, MR2 Spider, Silver w/blk conv,5sp, 47K mi, 19,900/obo. MUST SELL!!! 925-634-8162

2000 - Ford Escort, 23,000 mi, 4 dr, 2.0 liter, 4 cyl, A/T, A/C, Power Steering, Power Brakes. \$6300 OBO. 925-447-2466

1996 - Mustang GT, 4.6 v8, 5-speed, all power, A/C, am/fm cd player, flowmaster exhaust, 17 in. chromed alum wheels, 65k, excellent condition. \$9,500 OBO. 925-997-4647

1995 - Chevrolet Suburban 4X4 LS maroon. Good condition, clean inside with no mechanical problems. 12 disc CD player. 127K miles. \$9000 209-832-1321

AUTOMOBILE ACCESSORIES

2003 - HOLLY Street Avenger 4 barrel carb. 670 cfm vac. sec, e-choke, fuel gauge. Perfect condition, stainless steel fuel line included. 200\$ 209-527-4990

Camper shell for 8ft bed, fits 1970 Chevy 3/4-ton: older, but shell in very good cond. FREE you pick up & take away. 925-449-2169

Tire chains, never used. Fits 15in wheel. \$2 925-447-6221

Custom Wheels and tires. Center Line, polished aluminum with spinners, 2@7 wide x 14 dia., 2 @ 8 1/2 wide x 15 dia. TA Radials on all. \$300 925-240-7066

BICYCLES

Ritchey Road Bike: 59 cm.: Hand made by Tom Ritchey 1979; Reynolds; Wheelsmith; new Gran Prix tires; Shimano 14 speed down tube indexing; Ready \$750 650-237-0000

Girls Bike- 5 speed,Pacific-Catalina(purple), 13 inch frame, excellent condition. Can bring to LLNL for viewing. \$30.00 209-832-0765

KLEIN Mountain Bike. Full Suspension. Carbon fiber main frame. XT/XTR components. Pro taper handle bars. Great condition. \$600. 925-321-3693

BOATS

1996-20ft Blue Water ~Mirage~ Family Ski Boat \$14,500. 1 owner, garaged, serviced yearly, I/O Merc. 4.3L V6, tandem

trailer w/swing away hitch 209-599-7499

Sea-Doo, 2001 GTX 3-Seater, trailer and cover (27 Hrs) Excellent Condition. Ready To Go! \$7,500 OBO 925-699-4865

36 ft Swallowcraft Scylla CC Ocean/Bay Cruiser for sale. Call William, or visit: http://www.kineticduo.com/boat_for_sale/html/main.html for details. 510-552-2127

ELECTRONIC EQUIPMENT

Power Mac 7100/80 w/extended memory, 17in Apple Monitor, Apple color stylewriter 2400. \$300 925-447-6221

Technics 3-way speakers, SB-L76, 12 inch woofers, 26x14 inches in size. Minimal use, in storage, great condition, \$50. 925-964-0534

200 watt receiver, \$130: 6 disc CD changer, \$50; 10 in. 450 watt subwoofer in custom box, \$130. Buy a piece or the whole system. 925-449-1324

GIVEAWAY

Brown sofa 925-449-0463

Lawn Mower - old but reliable 925-454-8918

Two mirrors, 7 1/2 ft x 3 1/2 ft tall w/dome shaped top. Free - you haul. 925-606-6422

Free- Portable electric spa with cover 7x7. works fine, needs some tlc. U-haul. Discovery Bay. 925-516-4973

HOUSEHOLD

2 dark wood armoires \$100 each obo, 2 bookshelves \$20 each obo 925-449-0463

Craftsman 18 inch bandsaw, leg set w/wheels, approx 8 years old, exc cond. \$225/offer. 209-941-9114

Gently used newborn to 3T clothing for boys. 3 huge bins full. Name brands. Come see & make offer. 209-833-8306

Queen sized Mediterranean bedroom set. Triple dresser, mirror, two night stands, chest, headboard. Good condition. \$450 BO 925-449-1128

Little Tykes outdoor gear: Large folding slide, \$30. 5-7ft basketball hoop, rolling base, \$30. 925-294-9022

PRIVET plants 5 gal, 3 for \$15. 925-447-6192

Weber kettle charcoal grill w/wooden grill table - \$10. 925-606-6422

Thomasville Dining Room Table with 6 chairs, circa 1940. 40 in. x 60 in., with three 12 in. leaves and table pads. \$600. 925-846-1785

Whirlpool quiet wash plus built-in Dish-washer. 5 cycles, delay, high temp rinse. Excellent condition. \$100.00 925-447-7160

White GE Microwave Oven. Five years old, great condition with turntable and original manual. Features one touch cooking. 928-361-0457

2 toddler beds with mattresses. One is a Snooze-N-Cruise car bed, other a white sleigh bed. \$50 each 209-824-2177

Full-sized convertible guest bed/loveseat futon. Wood frame and new forest green cover. Good shape. \$25. 925-456-5621

Leather chair and love seat, brown leather,oversuffed style. \$200 925-829-0375

Lawn Mower, MTD Yard Machine. Runs well. Make offer. 925-829-3226

Pier bedroom set. Solid oak. Beautifu. Must sell. \$500 obo. 209-833-7257

Childs Twin bed with White bookcase headboard frame and mattress included \$60.00 209-832-8072

Granite slabs for counter top. Bullnosed. Mostly grey with cream color. 3 pieces: 8 ft, 6.5 ft, 2.5 ft. \$300 925-200-4475

Entertainment Center. Approx 4ft x 5ft, TV area 34in x 31in, light wood w/ glass

doors, very new, moving and cannot take it with. \$150 OBO. 925-963-9188

Metal red toddler bed frame \$15, rocking chair \$20 925-371-1076

LOST & FOUND

Lost Wedding rings, yellow gold/white gold solitaire settings vicinity T2580, Parking lot B-4, B415 and parking lot south of B415 925-443-8293

Lost: Somewhere in vicinity of B216 and west parking lot, small silver earring with two amethyst stones 209-836-5161

Lost: Mens gold wedding ring with 1 center mount diamond, sometime around 4/30, possibly in one of the parking lots near B543. Reward 925-867-9411

MISCELLANEOUS

WOW! Close To My Heart rubberstamps and Scrapbooking. Make friends, have fun and learn the art of rubberstamping. 925-455-8455

Thomas the Train & Pokeman cake pans with instructions/picture. Orig. \$15 each/sell \$5 each. 925-998-2620

Clothes, Boy-Girl 0-4, (Gap, Gymboree, Old Navy) Gently used, excellent prices. Complete crib bedding. 925-998-2620

Dinner tickets for Friends of NRA annual fundraiser. \$40 ea. 6/21/03 6:00PM Walnut Creek Elks Lodge. Lots of prizes! 925-443-1547

FranklinCovey Pocket size planner case. Wallet style, zipper. Forest green leather w/ wrist strap & shoulder strap. \$50. 925-294-9022

Two Kirkwood ski passes - 1/2 price! If interested, call 925-240-0678.

Kiln, Classic 810 model, firing chamber is 11.5x9 inches, minimal use, extra interior shelves, 120V, \$500 value, will sell for \$150. 925-964-0534

Bunkbeds,solid maple light tone bunks. 1 year old \$200.00 925-443-3358

Coffee Table with matching End Table, oak finish, smoked glass top, excellent condition, \$100.00 925-447-7160

Ford Tractor 8N good condition.\$3100.00 or best offer 925-454-1749

Moving materials are expensive! Save 50%. Materials (used once) include 40 boxes assorted sizes, paper, foam. Call for more info. 925-946-0102

Antique 100 year old solid wood window frames with original rippled, seeded glass. Glass is 24 inch x 32 inch. \$30 each 925-447-6670

Sears Craftsman gas trimmer/cutter \$30 Also a manual post hole auger, G.I.type extendable, articulated \$25 408-268-7924

Wanted cheap or free landscaping rocks and cobblestones. 925-709-1794

Metal Desk. Beige color. Wood grain top. Excellent condition with lots of storage. We are moving. \$25 925-455-1578

MOTORCYCLES

1991 - Kawasaki Vulcan 1500cc with only 16K Miles. Looks and runs great. Black w/pinstripes. Includes saddle bags and 2 helmets. \$2900 OBO 925-245-1414

2002 - Suzuki GSXR750 Yosh Full System. Fender Eliminator Kit. Geared 1 down on front sproket. 7,000 miles. Flush mount blinkers \$6950 OBO 925-447-0546

96 - Yamaha,1100 Virago, Ecellent condition, Leather Saddle bags, Windshield, 17K miles. \$3600 obo. 510-881-5798

MUSIC INSTRUMENTS

Story & Clark spinet piano. One broken key, broken music stand. Needs tuning. \$100. Uhaul. 925-960-1820

PETS & SUPPLIES

Nylabone Folding pet carrier, large to 60 lbs. Excellent condition, half price, \$45. 925-294-9022

Pug, 11 month old female, AKC papers, loves people, needs loving home, \$350 925-829-1794

ROPING SADDLE near new condition \$525.00 15in BILLY COOK BARREL SADDLE \$425.00 FARNUM HARROW groom arenas,thatch pastures. \$225 209-824-2177

Dog Crate Deluxe Pet Porter. Approx 2 ft x 3ft x 2ft, up to 50 or 60 lb dog. Very good condition. Great for training or travel. Make offer. 925-829-3226

RECREATION EQUIPMENT

Pacific Fitness Home Gym, great condition \$450 925-240-6237

LAT MACHINE- Tuff stuff TLM-85, No cable change system for upper and lower body workouts, with attachments. Excellent condition. 275.00 209-832-0765

Beginning golfer, 6 foot 4 tall, Wanting to buy a decent set of starter clubs to fit my height. What have you got? 925-449-0982

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp> their website.

Oakland - Montclair vanpool is seeking new ridership. We are on the 9/80 schedule, arriving at the lab at 7:35am and leaving the lab at 5:30pm. 510-834-6405, ext. 4-5173

Manteca - 4th person needed. Drive every 4th day. Work hours 7:30 to 4:00. 209-823-5593, ext. 3-8539

SERVICES

CONCRETE: Custom, stamped, colored, foundations, retaining walls & more. Over 20 years experience. Lic#787092-B. 408-806-9816

House Cleaning Services,Good references, Good experience 925-292-0405

Roofing, 28 yrs experience, licensed and fully insured 925-454-9200

SHARED HOUSING

Livermore - Room for rent, 5 minutes from the Lab, private bathroom, garage privileges, \$525/mo share PG&E bill, all other utilities included 925-456-5577

Livermore - - Master bedroom and bath in clean, quiet home. Full privileges, non-smoking, \$640/month includes utilities. \$400 deposit. 925-784-0011

Brentwood - - Room w/furnished, Private bathroom plus kitchen/laundry privileges, utilities included, cable ready. Non-smoking. Short-term considered. \$600/mo. 925-455-4666

Livermore - Share New Townhouse 3Br2.5Ba, 5 min to Lab. Has pool table, 2CarG. dual fireplace, 2floors, backyard, park, Com Jacuzzi. See at blametexas.com (\$900) 925-449-0603

TRUCKS & TRAILERS

1992 - Toyota shortbed truck, camper shell, rack for hauling. 56,000 miles, manual five speed. excellent condition. \$7500 or BO. 209-632-5711

Bed-liner for long-bed Dodge Pickup (98) like new. \$75 925-625-5938

1976 - Self contained Vacationeer Cabover Camper. 9.5 ft fits full size PU.

\$500 OBO. 925-373-8297

2000 - 2000 Coachman 25ft. Fully Loaded, Bunk Beds, Awning. \$11,000 209-614-1694 209-614-1694

1989 - Chevy Blazer Silverado, full size. many extras, Goodyear mud/snow tires. 112,000mi \$3850.00 OBO. Ron Keefer. 925-240-5915

1998 - Safari Sahara 35ft Class A Motorhome, Cat 300HP diesel, Allison 6sp, 16,200mi, exc condition, orig owner, call George for details 925-837-2022

1997 - Chevy Tahoe LT 4X4, all power, new trans., am/fm cassette and cd player, air hitch and tow, new tires, keyless entry. 143k. \$11,900 OBO. 925-828-2408

VACATION RENTALS

SOLANA BEACH/DEL MAR - Oceanfront condo, delux 2br. 2 1/2 ba., tennis, pool, jacuzzi, fully equiped, gated and indoor parking, near San Diego attractions. 925-443-2271

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, nicely furnished, All amenities, Park w/ Lake, tennis etc. Great for families! Reserve now for Summer! 209-599-4644

WANTED

Wanted: Someone to rent our 2bd/2ba, 2car garage townhouse in Livermore. Corner lot, one story, A/C, small yard, pool, excel. cond. \$1400/mo. 925-243-1364

Repair a leak for the SPA. I need someone to patch up a hole for the above ground SPA in the garden or a good referral. Please call Tina 925-408-5537

One outboard 5 to 10hp running 209-838-1385

Looking for a College or High School student to tutor 6 year old in reading and math skills aproximately 1 hour per weekday during summer break. 925-961-0242

Looking for late model camp trailer with bathroom and kitchen. Possibly 20-25 ft. 209-234-1430

Looking for a small refrigerator suitable for a college dorm room. 925-828-6737

Wanted: Low-cost Cab-over Camper for family whose camper fell and broke. 8 or 9 ft maximum -in good shape. 925-725-5938

Monitor in good condition for an Apple G3 computer. Prefer 17-20inch. 925-447-1927

WANTED: Artist/Cartoonist/Graphic Designer for motorsports merchandise 209-824-2177

WANTED: diaper pails with foot pedal and self-closing lids for community composting project. Also, used compost bins/tumblers. 510-601-5180

WANTED: Vacuum tube equip,tubes, stereos,speakers, need not working. 925-443-2954

Services and merchandise listed in Newsline are not guaranteed. It is up to the buyer to scrutinize services purchased.

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

NEWS OF NOTE



Motorscooter laws address risks and safety issues

Traci Rebiejo
LIVERMORE POLICE DEPARTMENT

Editor’s note: The Lab’s Traffic Safety Committee passes along this safety update, which first appeared in the Livermore community newsletter.

Motorized scooter laws rule

Anyone who is age 16 or older may operate a motorized scooter in California — without a driver’s license, insurance, registration or license plates. Following is a summary of motorized scooter laws and risks:

Required equipment day & night:

- Operator must wear properly fitted and fastened bicycle helmet meeting standards of Vehicle Code §21212.
- Handlebars must be at or below the operator’s shoulders.
- Engine/motor kill switch must activate when released or when brakes are applied.

Required equipment after dark:

- White headlight on scooter visible 300 feet from front and sides.

- Reflector on rear of scooter or attached to operator visible from 500 feet.
- White or yellow reflector on each side of scooter visible 200 feet from front and rear.

No riding zones:

- Scooters may not be operated on streets with a speed limit over 25 mph, unless in a marked bicycle lane.
- Scooters may not be operated on sidewalks.

Riding rules with consequences:

- Scooters may not be operated at more than 15 mph.
- Operator must have at least one hand on handlebars at all times.
- Operator may not carry passengers.
- Operator may not attach self or scooter to any other vehicle.
- DUI penalties apply to scooter operators.
- Operator may not turn left at intersections, but must stop and dismount at the right side of road or curb — then complete the turn by crossing the road on foot.
- Operator may not park scooter on sidewalk if it blocks pathway.
- Motor scooter may not emit excessive noise (e.g., from modified exhaust systems).

Legal consequences:

- Operator may be cited and ordered to court for violating any motorized scooter or other traffic laws.
- Parents/guardians of a minor operating a scooter may be liable for scooter-related injuries to others or damage to property, which liability insurance may not cover.

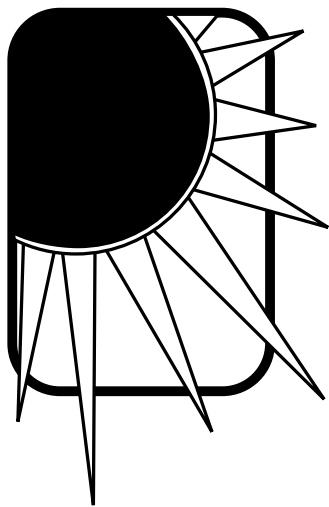
New 2003 Child Helmet Law

Children under 18 must now wear properly fitted and fastened bicycle helmets whenever operating bicycles, non-motorized scooters, skateboards, in-line skates and roller skates. This includes passengers on bicycles and children riding in restraining seats and in trailers towed by bicycles.

This law applies to all streets, sidewalks, bikeways, public bicycle paths and trails. Helmets must meet standards of the American Society for Testing and Materials or the United States Consumer Product Safety Commission. Any child not wearing a helmet may be cited and receive a court fine of \$91 for which the minor and parents/guardians are equally liable.

If you have questions about motor scooter safety or the new helmet law, contact Officer Traci Rebiejo at 371-4858 or officer.carseat@livermorepolice.org.

Tips for conserving energy and cutting costs at work and at home



“Daylight-Savings Time” signifies the beginning of the spring and summer seasons, and vacation schedules. Many of you will fire up your home- and office-cooling systems and take vacations and travel during this next several months. Please take a moment, as you leave your homes and offices, to save some energy when you’re gone.

A few tips to save energy at home:

- Replace incandescent light bulbs with compact fluorescent lamps; turn them off when not needed.
- Replace light switches with occupancy sensor switches in the kitchen, hallways and bathrooms.
- Clean your refrigerator coils.
- Clean the air conditioner coils, too.
- Use the washer for full loads and consolidate loads for the dryer.
- For heating, turn thermostats to 68°F when you’re home, and down to 55°F when you leave.
- For cooling, turn thermostats to 78°F when you’re home, and up to 85°F when you leave.

- Check and repair/replace the weather stripping around doors and windows.
- Take a few minutes to analyze your home’s energy efficiency and learn ways to save. Go to PG&E’s Web site at: http://pge.com/003_save_energy/003a_res/home_tools.shtml (also available in Spanish and Chinese).
- PG&E’s Residential Energy Guide, a step-by-step guide to smart energy use is found at: http://pge.com/003_save_energy/003a_res/pdf/big-picture.pdf.

Tips for saving energy at the Lab

With alternate work schedules now available, many weekends are extended. So, treat each weekend as a holiday. Recommended actions before weekends (especially three-day weekends) and vacations:

- Turn off computers.
- Turn off unneeded printers, copier, and fax machines.
- Turn off under-cabinet task lamps and overhead lighting.
- Turn off your under-desk heaters when you leave your workstations and offices.
- Several general energy saving procedures should be a daily practice:
 - Turn off monitors serving computers that need to be left on for nightly backup or for other reasons (don’t turn off the CPU).
 - Enable the Energy Star™ power management features of Windows:
 - Right click on desktop.

- Select and click on Properties.
- Select the Screen Saver Tab (top of “Display Properties” screen).
- Click on the “Power” button in the Energy Star box.
- Make your selections (recommend only to turn off monitor after user specified time delay).
- Use the duplex features on copiers whenever possible to save the energy and resources embodied in manufacturing paper.
- When possible, use the Laboratory’s orange bicycles to get around.
- Minimize use of hot water wherever possible.
- For heating, turn thermostats to 68°F when you’re at the office; down to 55°F when away.
- For cooling, turn thermostats to 78°F when you’re at the office; up to 85°F when you leave.
- Laboratory researchers, technicians and shop workers are encouraged to adopt the following practices:
 - Close fume hood sashes to “minimum” when not working in them.
 - Turn off LCW supplies to scientific equipment not in use.
 - Turn off compressed air supplies to equipment not in use. Report compressed air leaks to the Mechanical Utilities Division at mayhugh1@llnl.gov.
- When you notice energy waste in building or utility systems, please contact Energy Management & Mechanical Utilities at horst1@llnl.gov.

GALAXIES

Continued from page 1

holes in the center of these two galaxies. The clouds combined with the gases, seen by Livermore scientists, pinpoint how super massive black holes shape and limit the growth of extremely massive galaxies.

“This is the first discovery of X-ray emissions from these galaxies,” said Wil van Breugel, co-investigator on the project, who

works at Livermore’s Institute of Geophysics and Planetary Physics. “It’s another piece of evidence that ties into the feedback mechanism of black holes and their role in forming galaxies. It’s a new idea that brings many physical processes together.”

The two galaxies, 3C294 and 4C41.17, live in regions of space that contain a large number of galaxies. The gravity of the dark matter, gas and galaxies in these regions will eventually pull them together and cluster, forming some of the most massive objects in

the universe.

Using Keck, astronomers have recently discovered giant clouds of 10,000 degree Celsius gas that coincide closely with the largest extent of the X-ray emissions observed by Chandra.

The data collected on both Chandra and Keck will be presented in an upcoming issue of the *Monthly Notices of the Royal Astronomical Society* and another paper to be published in the *Astrophysical Journal*. Livermore scientists are contributing authors to the *Astrophysical Journal* article.



THE BACK PAGE

ANNIVERSARY

Continued from page 1

number of “extraordinary people.”

Mendelsohn said that after becoming associate director, he started several research initiatives, with a major emphasis on new technologies such as flow cytometry and research fields that helped to set the stage for the Human Genome Program.

“It’s been the best 30 years of my life,” Mendelsohn said. “It’s a joy for me to stay associated.”

Tony Carrano, who succeeded Mendelsohn before leaving for a position in industry in 2000, traced the blossoming of the genomic era that began in the mid-1980s and made possible BBRP’s mapping and sequencing work on Chromosome 19 and its strong role in the Department of Energy’s

Joint Genome Institute. He also showed how BBRP’s genomics capabilities led to strong programs in bioinformatics, microbial diagnostics, microbial detectors and structural and computational biology.

Carrano cited the creativity, drive, and teamwork of BBRP people. He said that during his tenure as associate director, he struggled with the issues of balancing research priorities, leveraging the directorate’s strengths and staying flexible.

Acting BBRP Associate Director Bert Weinstein focused his remarks on the future. He said that although it might appear dangerous to make predictions about a field like biology that is changing so fast, extrapolating the work currently in progress suggests that within 10 years:

- It will cost \$1 million to sequence a mammalian genome. (The Human Genome Project cost \$3 billion.)

- 3-D movies will simulate the process of DNA repair and other cell functions.
 - The effectiveness of radiotherapy will be increased tenfold.
 - Live cells will be instrumented to record genes being turned on and proteins manufactured.
 - A routine physical will include a saliva analysis to reveal exposure to infectious diseases.
 - Scientists will model the biochemistry of bacteria living in deep ocean vents to produce cost-effective industrial processes, such as generating hydrogen.
- Weinstein noted that as part of the 40-year anniversary activities, BBRP will publish a collection of personal perspectives by prominent BBRP scientists. He also pointed to the directorship having recently completed one million work hours (representing two years) without a lost or restricted workday caused by an accident.

HOMELAND

Continued from page 1

ington. It has to be done by bringing to bear the capabilities of all of you in helping us with this problem.”

McQueary noted that as the DHS Science and Technology Directorate will only hire about 200 people, most of its technical work will be undertaken by national labs, private industry and universities.

To date, the organization has hired 43 people — from 15 different technical disciplines — including chemical engineers, chemists, biologists and one medical doctor.

People with two capabilities are being sought, those who are highly trained scientists who can evaluate programs that should be pursued and those capable of running programs, McQueary said.

McQueary described the Department of Energy national labs as a “national treasure,” adding it is valuable to have the labs’ talent base to address the problem of homeland security.

“The labs have played and will continue to play a very important role in homeland security.

“I’ve been extremely pleased that each of the labs that I’ve visited so far have formed their own homeland security organizations to make sure they have the focus to help us solve these complex problems.”

There will largely be separate line item funding for national lab work in support of homeland security projects, McQueary said.

In some areas, the national laboratories will compete and, in others, they will work collaboratively, he explained.

Private industry will also play a key role in the Science and Technology directorate’s plans for combating terrorism, with the formation of the Homeland Security Advanced Research Project Agency, or HSARPA.

Out of some \$803 million proposed for fiscal year 2004 spending by Science and Technology, it

is estimated that about \$350 million will be spent for private industry work through HSARPA, McQueary said.

In the area of education, \$10 million in scholarships and fellowships will be awarded annually starting this fall for counterterrorism efforts, according to the DHS under secretary.

“Our objective is to reach students and faculty who have an interest in working on projects relevant to homeland security.”

The formation of DHS represents the largest federal government reorganization since 1947 when President Truman established the Defense Department. DHS draws together 22 different agencies and 180,000 people.

During his speech, McQueary spelled out four missions for the department’s Science and Technology directorate:

- Serving as an advocate and lead for developing and deploying countermeasures for fighting chemical, biological, nuclear and high explosive threats.
- Conducting research and development, testing and evaluation in a timely manner for new operational capabilities.
- Having a rapid and efficient process for system development and procurement.
- Supporting the other operational directorates within DHS.



JACQUELINE MCBRIDE/NEWSLINE
Charles McQueary

“The Science and Technology directorate exists,” McQueary noted, “only because the other directorates do; it’s not the reverse. We should never lose sight of the fact who is the operational side of this and who is the science and technology part providing capabilities.”

While McQueary indicated that the directorate will conduct long-term research, he said the near-term projects and results will be “fundamentally important.”

“(We need to) demonstrate early on to ourselves and the American people by bringing a strong focus on science and technology that we can make some significant differences in the protection of this country.”

In another area, McQueary discussed that in the period since the Student Entry Visa Information System was introduced in December, some 3,000 foreigners who told authorities they would be attending U.S. colleges or universities have not shown up for classes.

During his talk, McQueary singled out four Laboratory employees — Rose O’Brien, Mike Carter and Greg and Nancy Suski — for their work in helping the new department to get off the ground.

HEALTH SERVICES

Continued from page 1

explained that “Under the new pilot program, individuals will be requested to call us (at 2-7459) when they want to be seen by a medical care provider, but don’t have an appointment. The receptionist will work with the employee to set up an appropriate time for an appointment — same day, next day or within a week — based on the nature of the health concern, the medical urgency, and the employee’s schedule.”

As a basic standard of medical care, acute injuries and illnesses will continue to be seen first regardless of any other consideration. Medical emergencies should be addressed promptly through the Lab’s “911” system. Health Services

will continue to direct work-related injuries or issues to the Workers Compensation Office staff, and psychological or mental health issues to the Employee Assistance Program.

“Drop-ins — people who don’t call ahead — will still be seen. However, as is the current practice, drop-ins may have to wait for us to honor appointment times of those who have called ahead.” Turner said. “For individuals with appointments, we will continue to make every effort to see them on schedule, barring medical emergencies.”

Health Services expects this 6-month pilot to save time for Laboratory employees. At the conclusion of the pilot, customer satisfaction with the new process will be surveyed to determine if service objectives are being met and the level of employee satisfaction.

For questions, comments or more details on this pilot program, call Carol Turner at 4-4516.



Newsline
UC-LLNL
PO Box 808, L-797
Livermore, CA 94551-0808